

## SPONSORING ORGANIZATIONS

**North Dakota Department of Health  
Public Health Laboratory**



**The National Laboratory Training Network (NLTN)** is a training system sponsored by the Association of Public Health Laboratories (APHL) and the Centers for Disease Control and Prevention (CDC).

## COURSE FACILITATORS

Diane Luck, MHS, MT(ASCP)  
CDC Training Advisor  
National Laboratory Training Network

Karen Breckenridge, MBA, MT (ASCP)  
APHL Regional Coordinator  
National Laboratory Training Network

## ACCREDITATION

Continuing education credits will be offered for laboratorians based on 3.5 hours of instruction.

## SPECIAL NEEDS

In compliance with Americans With Disabilities Act, individuals needing special accommodations should notify the NLTN Western Office (303-692-3283) at least two weeks prior to the workshop.

*Karen Breckenridge  
National Laboratory Training Network  
8100 Lowry Blvd.  
Denver, Colorado 80230-6928  
NLTN-0610*

# Laboratory Detection of Emerging Patterns of Resistance

**August 9, 2000**

**Bismarck,  
North Dakota**

**Sponsored by**

**National Laboratory Training Network  
Western Office  
and  
North Dakota Department of Health  
Public Health Laboratory**

## PROGRAM DESCRIPTION

Antibiotic resistance of many Gram positive and Gram negative organisms is becoming more prevalent in the United States and around the world. Despite national recommendations for antimicrobial resistance testing, many laboratories are unable to accurately detect resistant strains of bacteria. This workshop will address techniques for providing quality antimicrobial resistance testing to enhance patient care. Reagent integrity, quality control and assurance methods, and proper disc diffusion and MIC techniques will be described. Methods of documentation and proficiency evaluation of personnel will be included.

Adherence to national recommendations is vital for detection of resistance in enterococci, staphylococci, pneumococci and Gram negative bacilli. This practical course will cover unexpected patterns and clues for action to help laboratorians detect possible inaccuracies in resistance testing.

## PROGRAM OBJECTIVES

Upon completion of this workshop, the participant will be able to:

- Describe the epidemiological issues and medical concerns pertaining to the emergence of antibiotic resistant organisms over the past decade.
- Identify emerging patterns of resistance in enterococci, pneumococci, staphylococci and Gram negative bacilli.
- List laboratory methods available for the detection of emerging patterns of resistance.
- Cite the NCCLS performance standards for detecting emerging patterns of resistance.

## AGENDA

**8:00 a.m. Registration**  
**8:15 a.m. - Noon**

The Impact of Antibiotic-Resistant Microorganisms to Public Health

- Epidemiology
- Medical Issues
- Case Studies

Role of the Laboratory in Antibiotic Resistance Testing

- Aminoglycoside Resistance
- Detection of ESBLs
- Carbapenem Resistance
- Quinolones in the Clinical Laboratory
- Glycopeptide Resistance
- Oxacillin-Resistant Staphylococci

Key Elements of Quality Testing

- Reagent Integrity
- Standardized Methods
- Verification of Atypical Results

## MEETING LOCATION

Holiday Inn  
605 E. Broadway  
Bismarck, North Dakota 58501

## WHO SHOULD ATTEND

This workshop will be of interest to laboratorians, infection control specialists and clinicians.

## SPEAKERS

Bonna Cunningham, MS  
Acting Director  
Division of Microbiology  
Public Health Laboratory  
North Dakota Department of Health

Larry Shireley, MS, MPH  
State Epidemiologist  
North Dakota Department of Health

Carol Sundberg, MT(ASCP)  
Division of Microbiology  
Public Health Laboratory  
North Dakota Department of Health

## REGISTRATION INFORMATION

### Registration deadline:

Please fax or mail applications by August 2, 2000.  
On-line registration is available at:  
<http://www.aphl.org/nltn/registration.htm>

### Mail or Fax to:

Karen Breckenridge  
National Laboratory Training Network  
8100 Lowry Blvd.  
Denver, CO 80230  
FAX: 303-344-3008

### For more information call:

303-692-3283 or 800-536-6586